

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

22 FEB 2003

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference MTC022BW0	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/ 05840	International filing date (day/month/year) 04/06/2003	(Earliest) Priority Date (day/month/year) 28/06/2002
Applicant METHANOL CASALE S.A.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. **Certain claims were found unsearchable** (See Box I).

3. **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

1

None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP 03/05840

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Heat exchange unit (1) of the so-called multiservice type comprising a substantially cylindrical shell (2) closed at the opposite ends by respective base plates (3,4), a plurality of heat exchangers (13) supported inside this shell (2) and in fluid communication with the outside thereof.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/05840

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F28D9/00 B01J8/02 B01J19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F28D F28F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 153 653 A (METHANOL CASALE SA) 14 November 2001 (2001-11-14) column 5, line 6 - line 12 column 5, line 57 -column 6, line 29 column 6, line 56 -column 7, line 10 column 8, line 19 - line 49; figures 1-6 ---	1-4, 7
Y	FR 784 885 A (STUDIEN UND VERWERTUNGS GES M) 27 July 1935 (1935-07-27) page 1, line 1 - line 59; figures 1,2 ---	10-13
Y	US 3 666 423 A (MUENGER JAMES R) 30 May 1972 (1972-05-30) column 4, line 49 -column 5, line 25; figures 1,5 ---	10
Y	US 3 666 423 A (MUENGER JAMES R) 30 May 1972 (1972-05-30) column 4, line 49 -column 5, line 25; figures 1,5 ---	11-13
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

14 October 2003

21/10/2003

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/05840

C.(Continuation) DOCUMENTS CONSIDERED BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 100 31 347 A (BASF AG) 4 January 2001 (2001-01-04) column 6, line 45 - line 53 column 7, line 11 - line 41; figures 1-15 ---	1-4,7
X	FR 2 771 802 A (DIETRICH & CIE DE) 4 June 1999 (1999-06-04) page 6, line 5 -page 8, line 25 page 10, line 14 -page 12, line 11; figures 1-24 ---	1,5,6
A	US 5 035 867 A (DANG VU QUANG ET AL) 30 July 1991 (1991-07-30) column 1, line 54 -column 6, line 19; figures 1-4D ---	1
A	PATENT ABSTRACTS OF JAPAN vol. 013, no. 299 (M-847), 11 July 1989 (1989-07-11) -& JP 01 088099 A (HISAKA WORKS LTD), 3 April 1989 (1989-04-03) abstract ---	1
A	US 3 895 676 A (YOUNG RICHARD K) 22 July 1975 (1975-07-22) column 1, line 38 -column 3, line 8; figures 1-4 -----	1,7-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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